## **Listing of the Claims:**

1. (Original) A method for obtaining information for packets transmitted over a network, comprising:

transmitting a plurality of packets from a sender to a receiver, including at least one selected packet;

associating a sender-relative timestamp with each selected packet transmitted;

receiving at least some of the plurality of packets;

associating a receiver-relative timestamp with each selected packet received; and

associating a latency based on the sender-relative timestamp and the receiver-relative timestamp associated with each selected packet received.

- (Original) The method of claim 1 wherein associating the senderrelative timestamp includes placing a local timestamp of the sender into each selected packet.
- (Original) The method of claim 1 wherein associating the receiverrelative timestamp includes placing a local timestamp of the receiver into each selected packet.

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- 4. (Original) The method of claim 1 wherein associating the senderrelative timestamp includes placing a local timestamp of the sender into each
  selected packet, and associating the receiver-relative timestamp includes placing a
  local timestamp of the receiver into each selected packet.
- (Original) The method of claim 1 further comprising uniquely identifying each selected packet.
- 6. (Original) The method of claim 5 wherein uniquely identifying each selected packet includes writing a sequence number.

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- 7. (Original) The method of claim 1 further comprising normalizing the latency associated with each selected packet.
- 8. (Original) The method of claim 7 wherein at least two selected packets are received, and wherein normalizing the latency includes selecting the lowest latency from each of the latencies associated with each selected packet.
- 9. (Original) The method of claim 7 wherein normalizing the latency includes detecting at least one timer jump and adjusting information maintained for each selected packet to compensate therefor.

- 10. (Original) The method of claim 7 wherein normalizing the latency includes, detecting clock skew, and adjusting information maintained for each selected packet to compensate for the clock skew.
- 11. (Original) The method of claim 10 wherein a plurality of selected packets are received, and wherein detecting clock skew includes logically finding a slope based on information maintained with the selected packets.
- 12. (Original) The method of claim 1 further comprising, normalizing the sender-relative timestamp associated with each selected packet.
- 13. (Original) The method of claim 1 further comprising, normalizing the receiver-relative timestamp associated with each selected packet.
- 14. (Original) The method of claim 1 wherein the network is a controlled network, and further comprising running a calibration phase during transmission of at least some of the transmitted packets.
- 15. (Original) The method of claim 1 further comprising, generating noise by transmitting other packets on the network.
- 16. (Original) The method of claim 1 further comprising, enabling network quality of service.

- 17. (Original) The method of claim 1 further comprising, detecting dropped packets.
- 18. (Original) A computer-readable medium having computer-executable instructions for performing the method of claim 1.
- 19. (Currently Amended) A system for obtaining information transmitted over a network, comprising:

a network sender system, including:

a sender process configured to cause transmission of a plurality of selected packets on the network; and

a sender component configured to associate a sender timestamp of the sender with each selected packet;

and.

a network receiver system configured to receive each selected packet transmitted on the network, the receiver system including:

a receiver component configured to associate a receiver timestamp with each selected packet received; and

a receiver process, the receiver process <u>determining a latency based on the</u>

<u>sender timestamp and the receiver timestamp and maintaining information</u>

corresponding to the <u>latency</u>, the sender timestamp, and receiver timestamp in association with each selected packet.

- 20. (Original) The system of claim 19 further comprising, a process that normalizes the sender timestamp and receiver timestamp associated with each selected packet.
- 21. (Original) The system of claim 19 further comprising a process that determines a latency for each selected packet based on the information corresponding to the sender and receiver timestamps.
- 22. (Original) The system of claim 21 wherein the receiver process includes the process that determines each latency.
- 23. (Original) The system of claim 21 further comprising, a process that normalizes each latency.
- 24. (Original) The system of claim 21 wherein the sender system includes a sender clock that maintains time at a first rate and the receiver system includes a receiver clock that maintains time at a second rate, and further comprising, a process that adjusts each latency to compensate for a difference between the first rate and second rate.
- 25. (Original) The system of claim 21 further comprising, a process that compensates for a timer jump.

- 26. (Original) The system of claim 19 further comprising a noise generator connected to the network, and a noise sink connected to the network.
- 27. (Original) The system of claim 19 wherein the sender component runs in a kernel mode of the sender.
- 28. (Original) The system of claim 19 wherein the receiver component runs in a kernel mode of the receiver.

29. (Currently Amended) A computer-readable medium having stored thereon a data structure, comprising:

a first field comprising operable to store data representative of a packet send time;

a second field comprising operable to store data representative of a packet receive time; and

a third field <del>comprising</del> <u>operable to store</u> data representative of a packet latency time.

30. (Original) The data structure of claim 29 wherein the computerreadable medium comprises a data transmission medium.

- 31. (Original) The data structure of claim 29 further comprising, a fourth field comprising data representative of a packet sequence number.
- 32. (Original) The data structure of claim 29 wherein the packet latency time is normalized relative to another packet latency time.
- 33. (Original) The data structure of claim 29 wherein the packet send time is normalized relative to another packet send time.
- 34. (Original) The data structure of claim 29 wherein the packet receive time is normalized relative to a packet send time.
- 35. (Currently Amended) A computer-readable medium having stored thereon a data structure, comprising:

a first field comprising operable to store data representative of a packet sequence number;

a second field <del>comprising</del> <u>operable to store</u> data representative of a packet send time <u>suitable to determine a latency</u>; and

- a third field comprising operable to store data representative of a packet receive time suitable to determine a latency.
- 36. (Original) The data structure of claim 35 wherein the computerreadable medium comprises a data transmission medium.

- 37. (Original) The data structure of claim 35 further comprising, a fourth field comprising data representative of a packet latency.
- 38. (Original) The data structure of claim 37 wherein the packet send time, packet receive time and packet latency time are each normalized.

4039. (Currently Amended) A method for obtaining information for packets transmitted over a network, comprising:

transmitting a plurality of test packets from a sender to a receiver, and for each transmitted packet:

writing a sequence number into a first field; and

writing a sender-relative timestamp <u>suitable to determine a latency</u> into a second field;

and,

receiving at least some of the plurality of test packets, and for each packet received:

writing a senderreceiver-relative timestamp suitable to determine a latency into a third field; and

maintaining information corresponding to the sequence number, the senderrelative timestamp and the receiver-relative timestamp. In re Application of DHAVAPEDDI et al. Serial No. 09/537,995

4140. (Currently Amended) The method of claim 4039 wherein the information corresponding to the sender-relative timestamp and the receiver-relative timestamp includes a value indicative of a latency.

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4241. (Currently Amended) The method of claim 4140 wherein the value indicative of the latency is normalized relative to at least one other latency.